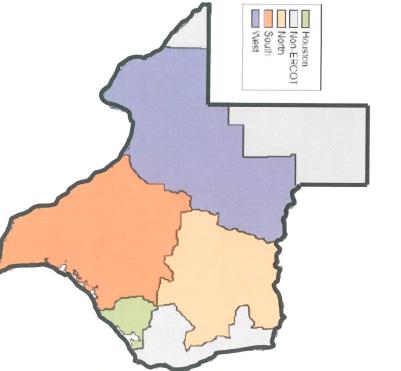
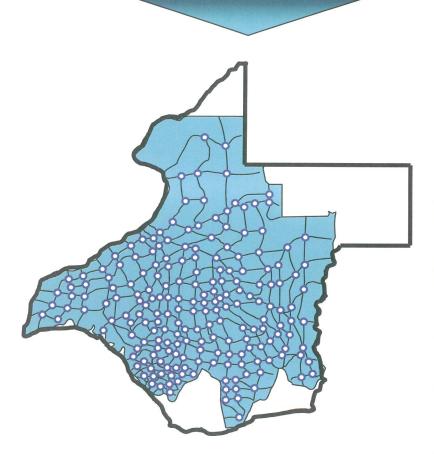


ERCOT Zonal



ERCOT Nodal





Benefits of a Nodal market

- Precise market-based pricing of generation
- More granular price signals
- Encourage resource competition
- and/or transmission investment in proper locations. -Nodal prices send proper price signals to encourage additional generation
- More accurate management of congestion
- consistent than current structure. -More accurate unit information. Market model and operations model are more





Vehicles and Energy Efficiency Smart Grid, Plug-in Electric

Smart Grid from the ISO perspective

- Smart Grid generally represents:
- An array of modern, primarily digital upgrades to the electric system
- Goals:
- Saving energy "shaving the peak"
- Reducing cost
- Improving reliability, efficiency and transparency.
- Smart Grid upgrades may be driven by policy initiatives or their natural course of business implemented by utilities, market participants and ISOs as part of



Generation Output by Fuel – Summer Peak Day

